



OFFICE OF SCIENCE & TECHNOLOGY

Through the Wall Imaging Radar

Project Description:

The National Institute of Justice is sponsoring Akela, Inc. to develop a Radar-based device capable of mapping internal wall structure and locating people within a building. The system employs tomographic image reconstruction, similar to methods found in CAT scans and ultrasounds. The conceptual graphic depicts a sensor array positioned in proximity to an exterior wall, with an output display of internal wall structure and persons moving inside. This development, if successful, will greatly enhance the ability of SWAT teams to successfully resolve hostage situations.



Status:

The project kickoff meeting was held in October 2000. Breadboard development, testing and evaluation is ongoing. Upon successful proof of concept demonstration, NIJ plans to fund the development of prototypes for further assessment.

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